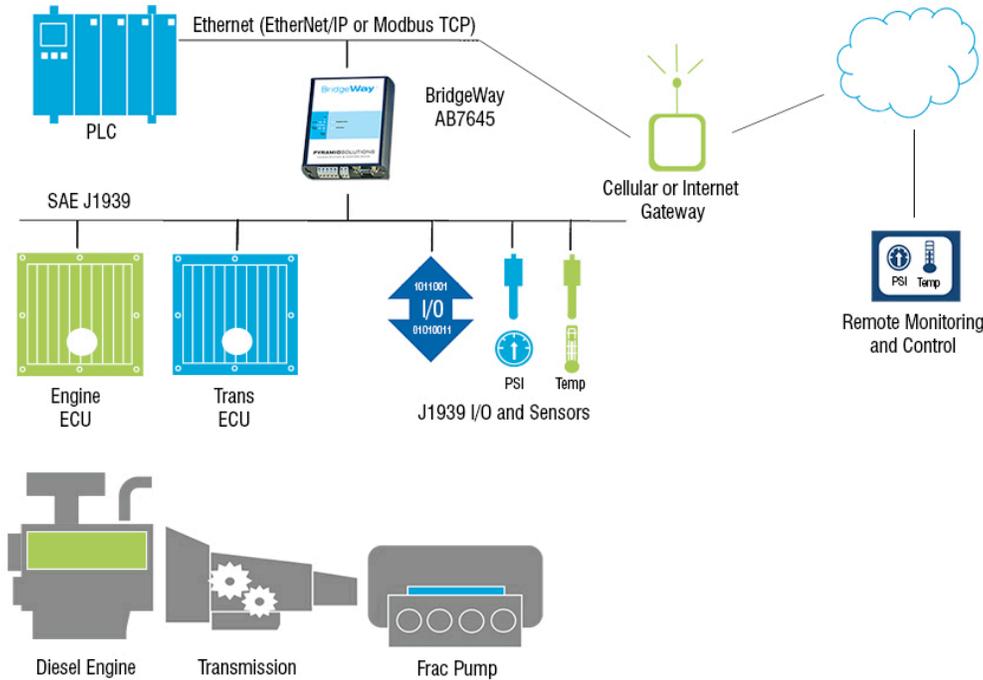


# BridgeWay™ Ethernet to J1939 Gateway Interface (AB7645)

## Control & Monitoring of a Frac Truck Application



### Get up and running with BridgeWay Services

Need help designing a network solution? Configuring or integrating your BridgeWay? We offer consulting, development and system integration services, including custom software development, to help you achieve your specific application requirements.

Flexible BridgeWay gateways and interfaces offer a significant range of functionality and are used in a wide range of applications. Businesses that want to make the most of these capabilities, or even expand on them, can take advantage of our *professional services* expertise, especially when schedules are tight or custom functionality is required. We can create a solution package based on your specific needs, ranging from remote hourly support, to onsite services or turnkey custom development. BridgeWay services include:

- BridgeWay solution network design, installation and configuration assistance
- BridgeWay and network training
- Remote support/consulting services (scheduled hourly services via phone or email)
- Onsite services (fixed price or hourly)
- Custom BridgeWay enhancements and PC software applications

Pyramid Solutions' BridgeWay Ethernet to J1939 Gateway (P/N AB7645) is a powerful and flexible product that enables connectivity from Automation Control Systems to Engine and other Vehicle and Equipment Control Systems that use SAE J1939 (over CAN) as the control network.

**Application:** Frac Trucks use a diesel engine driven high pressure pumping system to perform the fracking operation (pumping fluid into the ground) that releases previously inaccessible natural gas and oil.

**Problem:** How to monitor and control a diesel engine and transmission over SAE J1939 (CAN vehicle network) via a standard Automation Controller (PLC) over EtherNet/IP or Modbus TCP. The Fracking operation requires that the diesel engine and the transmission be controlled and monitored during the Fracking operation by the Automation Controller, as opposed to manual operation or wired analog control.

**Solution:** The BridgeWay AB7645 allows the Automation Controller to receive and send messages on the SAE J1939 network, which enables direct access to 1939 network data and the ability to perform control operations, such as adjusting the engine speed and shifting the transmission during the fracking operation.

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